4.2.H. 05130203080.

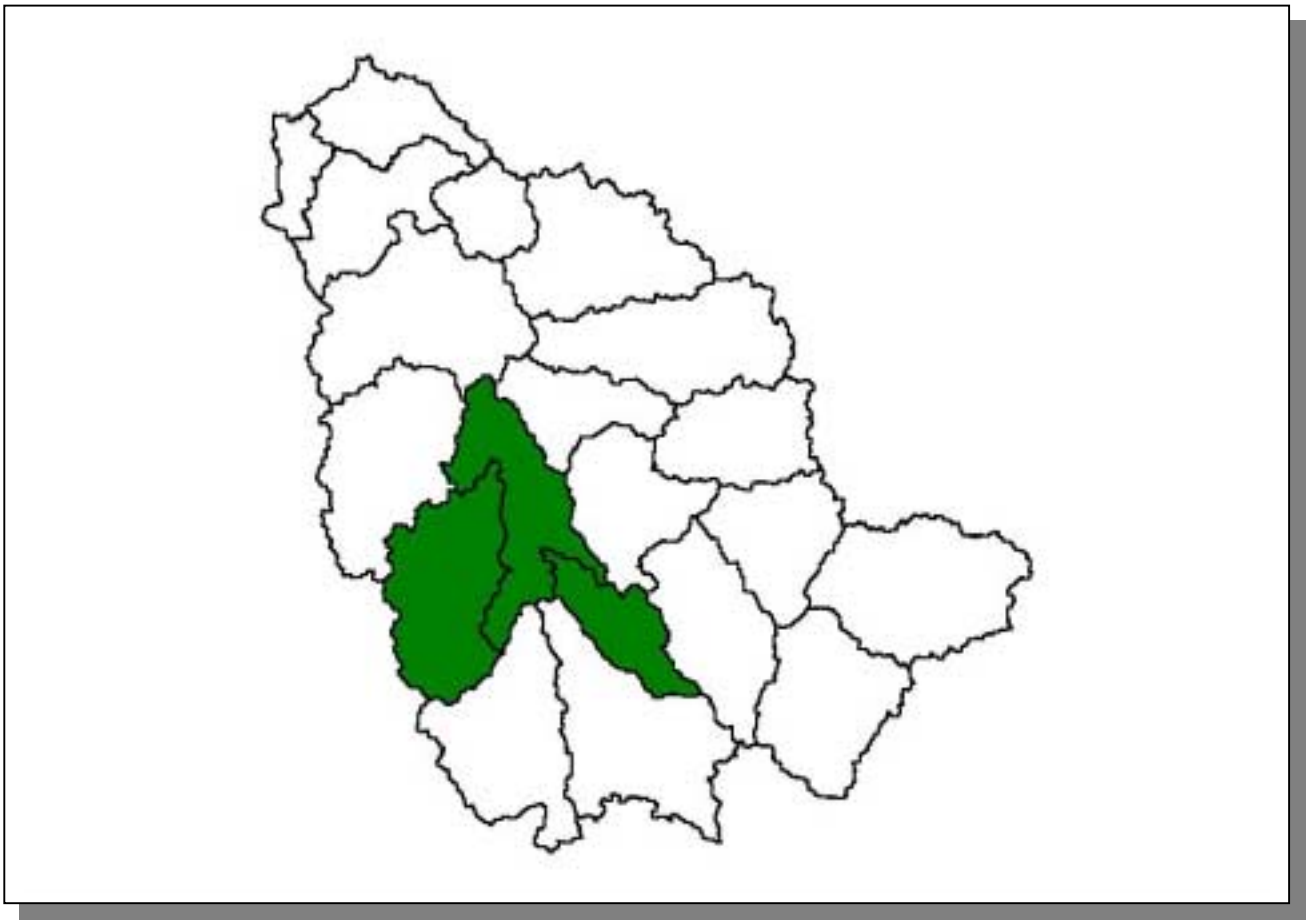

Figure 4-40. Location of Subwatershed 05130203080. *All Stones HUC-14 subwatershed boundaries are shown for reference.*

4.2.H.i. General Description.

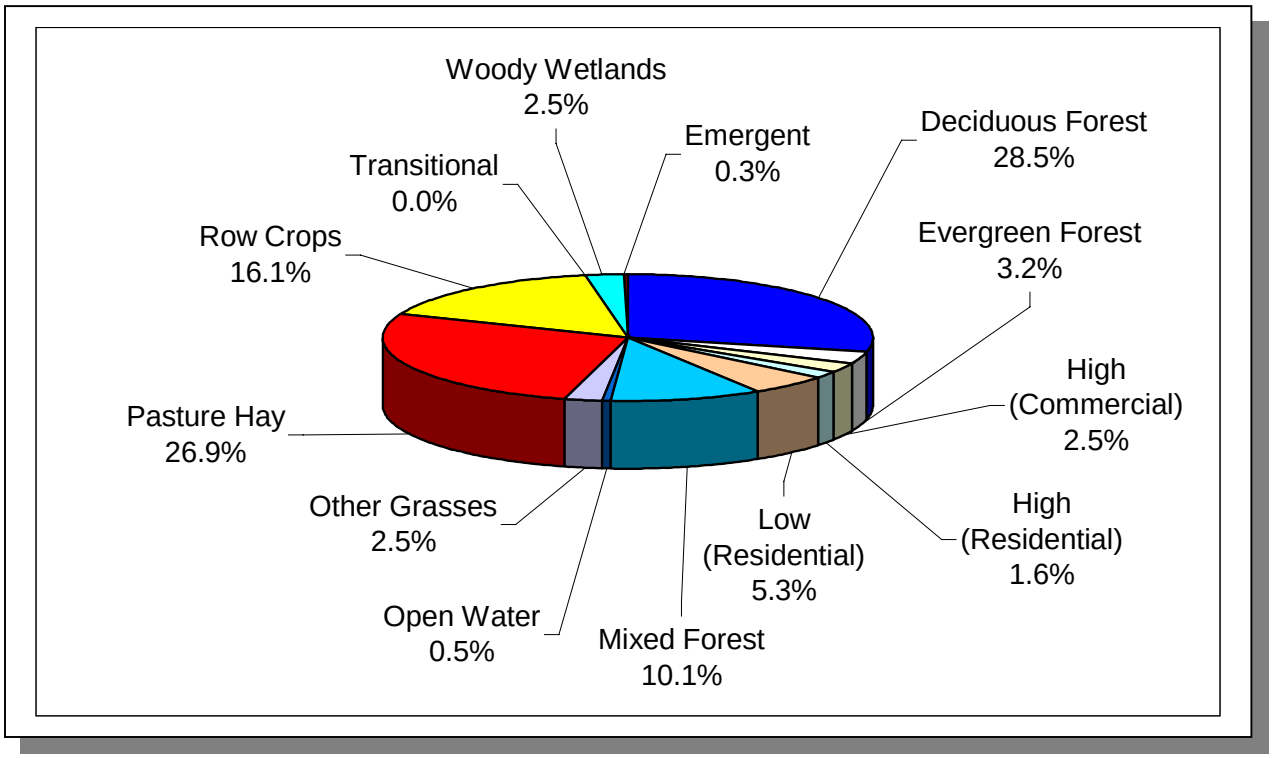

Figure 4-41. Land Use Distribution in Subwatershed 05130203080. More information is provided in Stones-Appendix IV.

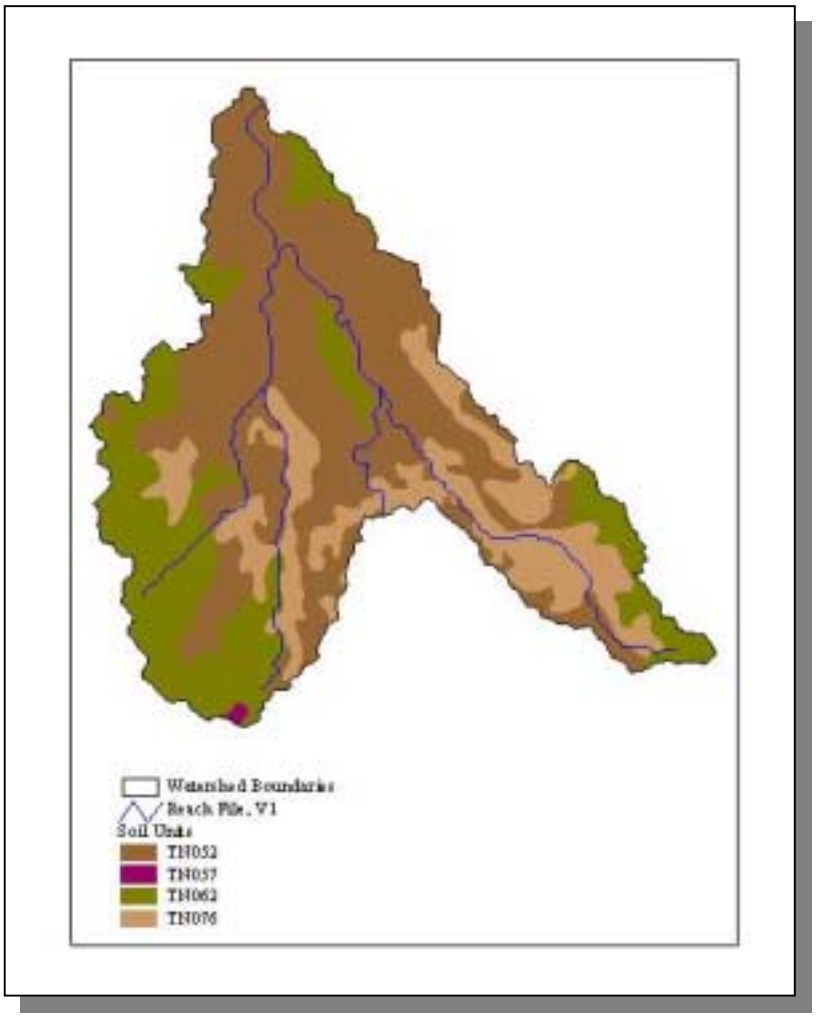

Figure 4-42. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 05130203080.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN052	0.00	B	1.23	5.46	Silty Loam	0.39
TN057	0.00	C	1.14	5.01	Clayey Loam	0.33
TN062	0.00	C	0.98	4.40	Clayey Loam	0.26
TN076	28.00	C	0.73	6.26	Silty Clayey Loam	0.33

Table 4-44. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 05130203080. *More information is provided in Stones-Appendix IV.*

	COUNTY POPULATION			ESTIMATED POPULATION IN WATERSHED		% CHANGE
County	1990	1997 Est.	Portion of Watershed (%)	1990	1997	
Rutherford	118,570	159987	21.4	25371	34233	34.9

Table 4-45. Population estimates in Subwatershed 05130203080.

				NUMBER OF HOUSING UNITS		
Populated Place	County	Population	Total	Public Sewer	Septic Tank	Other
Murfreesboro	Rutherford	44,922	18,708	17,845	855	8
Smyrna	Rutherford	13,647	5,312	4,959	346	7
Total		**58,569**	**24,020**	**22,804**	**1,201**	**15**

Table 4-46. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 05130203080.

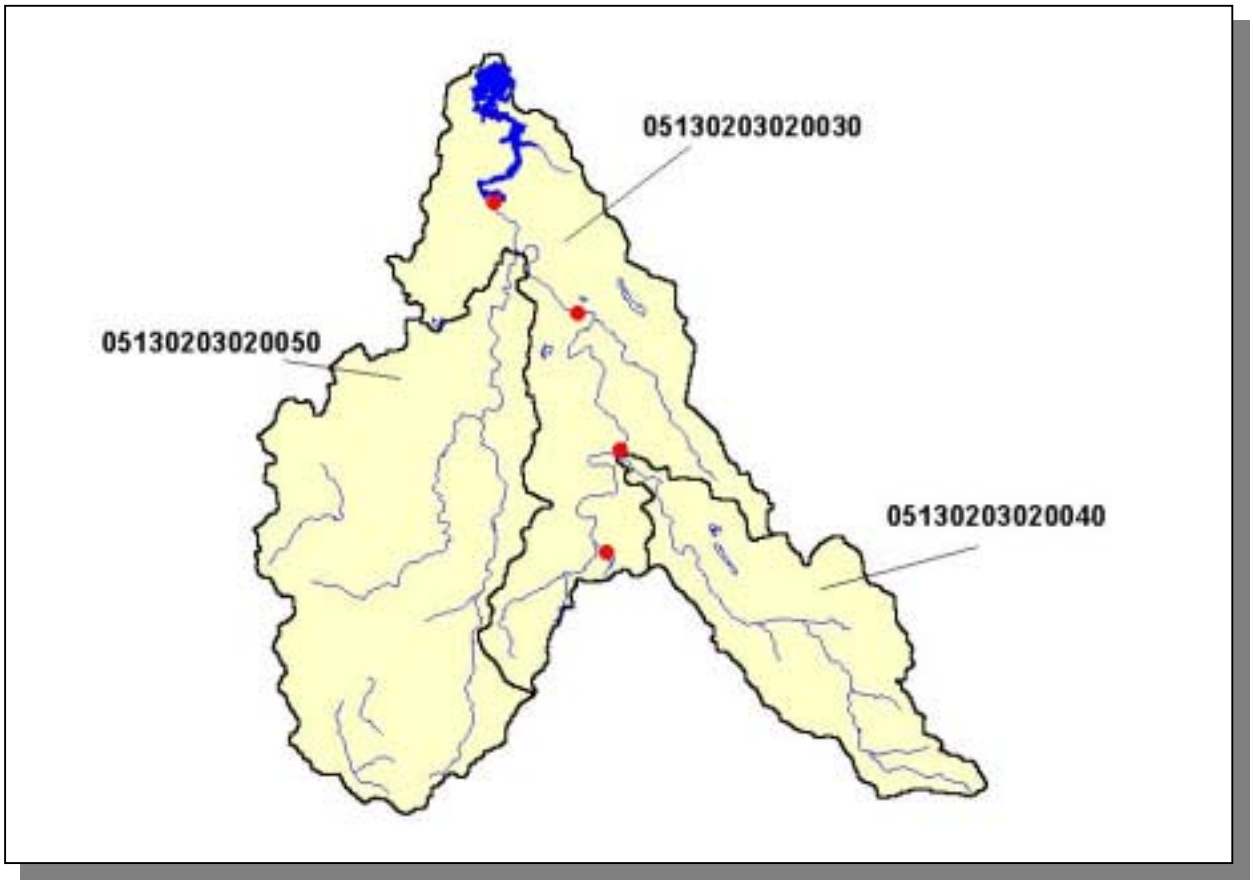

Figure 4-43. Location of Historical Streamflow Data Collection Sites in Subwatershed 05130203080. *Subwatershed 05130203020030, 05130203020040, and 05130203020050 boundaries are shown for reference. More information may be found in Stones-Appendix IV.*

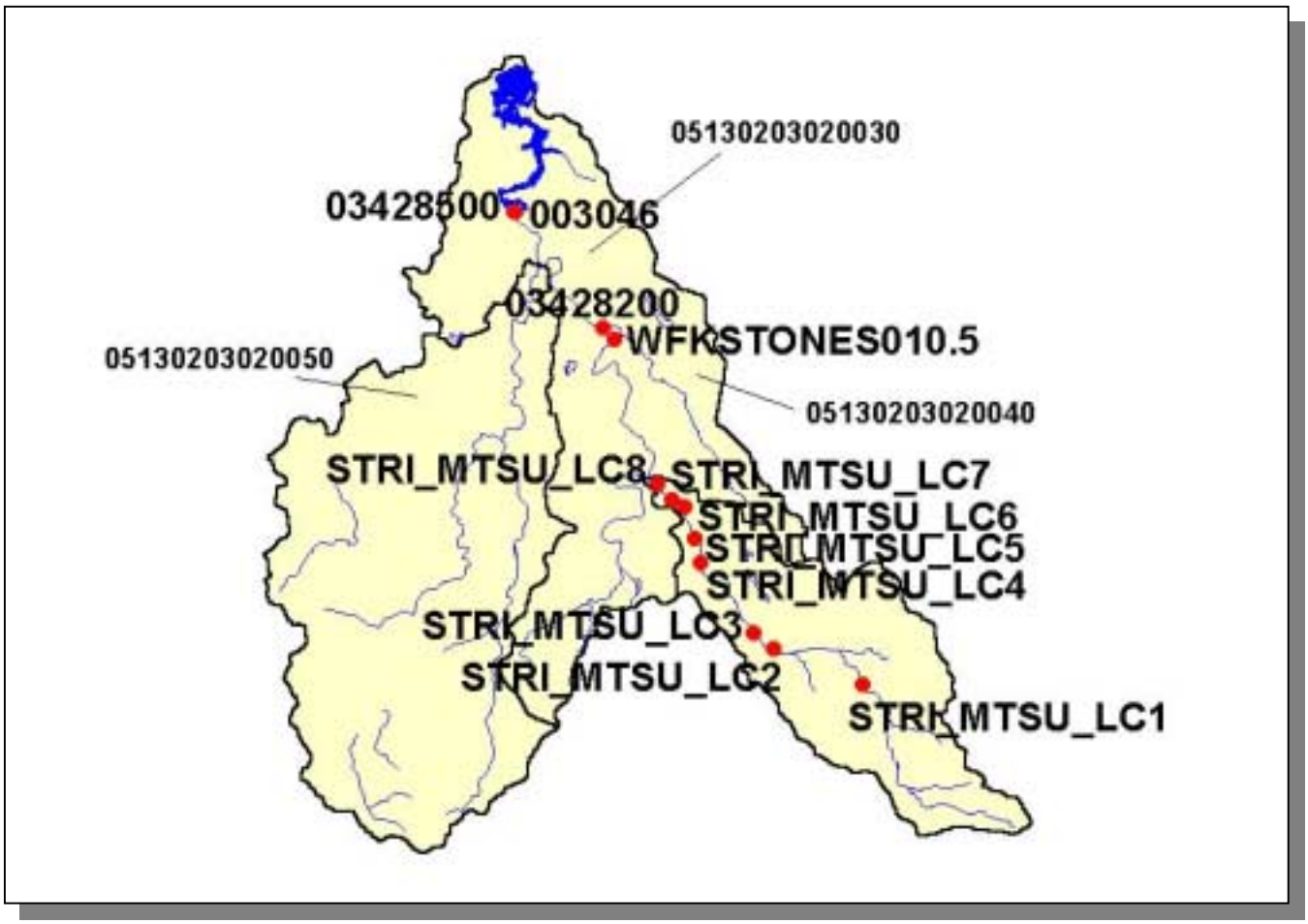

Figure 4-44. Location of STORET Monitoring Sites in Subwatershed 05130203080. *Subwatershed 05130203020030, 05130203020040, and 05130203020050 boundaries are shown for reference. More information may be found in Stones-Appendix IV.*

4.2.H.ii. Point Source Contributions.

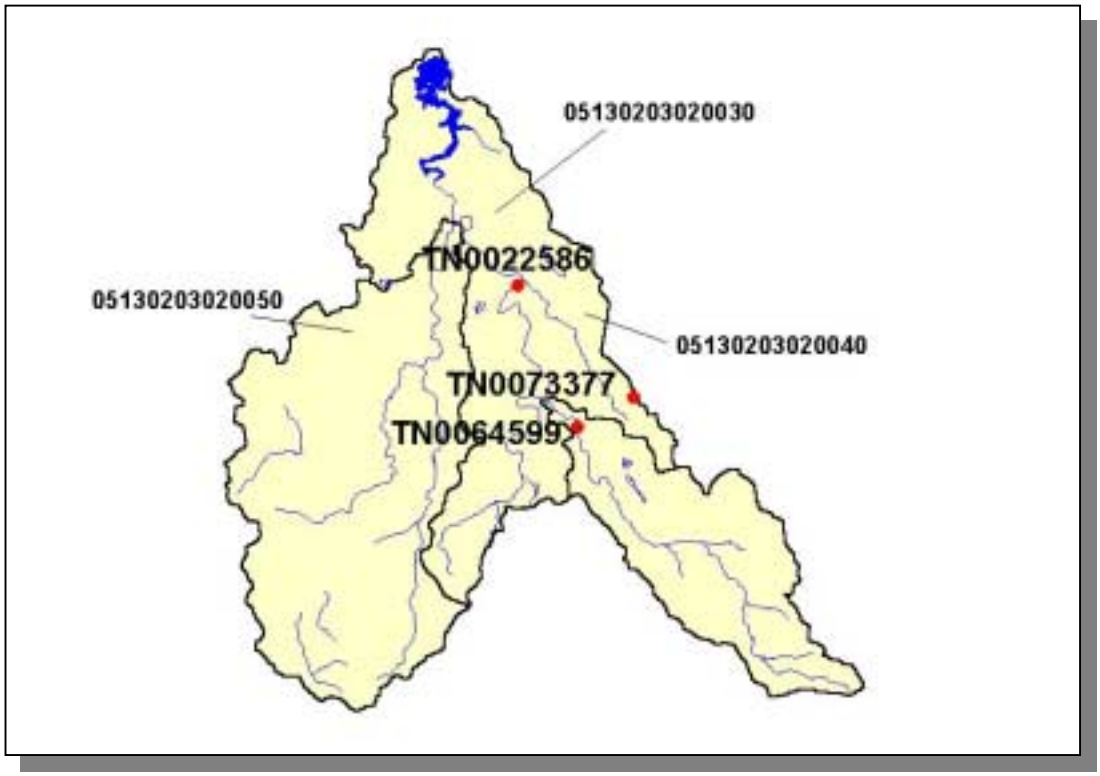

Figure 4-45. Location of Active Point Source Facilities (Individual Permits) in Subwatershed 05130203080. *Subwatershed 05130203020030, 05130203020040, and 05130203020050 boundaries are shown for reference. More information, including the names of facilities, is provided in Stones-Appendix IV.*

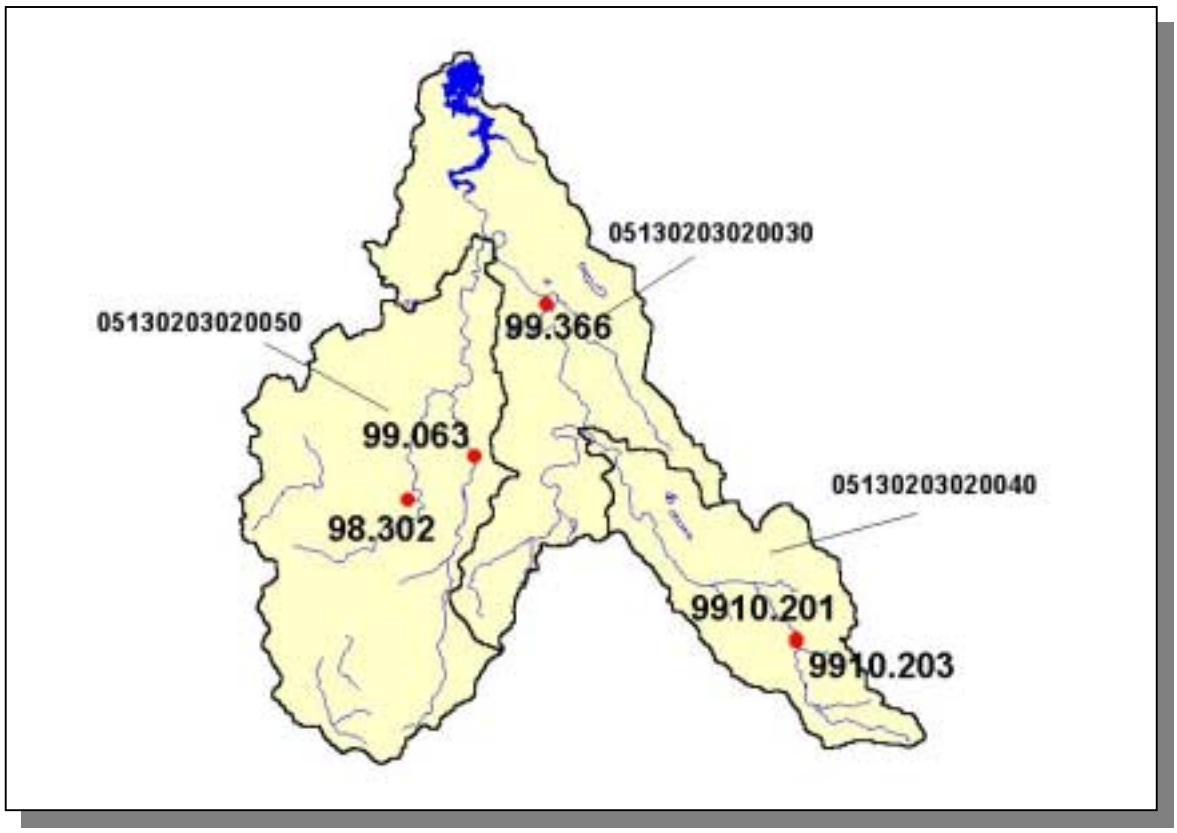

Figure 4-46. Location of ARAP Sites (Individual Permits) in Subwatershed 05130203080. *Subwatershed 05130203020030, 05130203020040, and 05130203040050 boundaries are shown for reference. Additional information may be found in Stones-Appendix IV.*

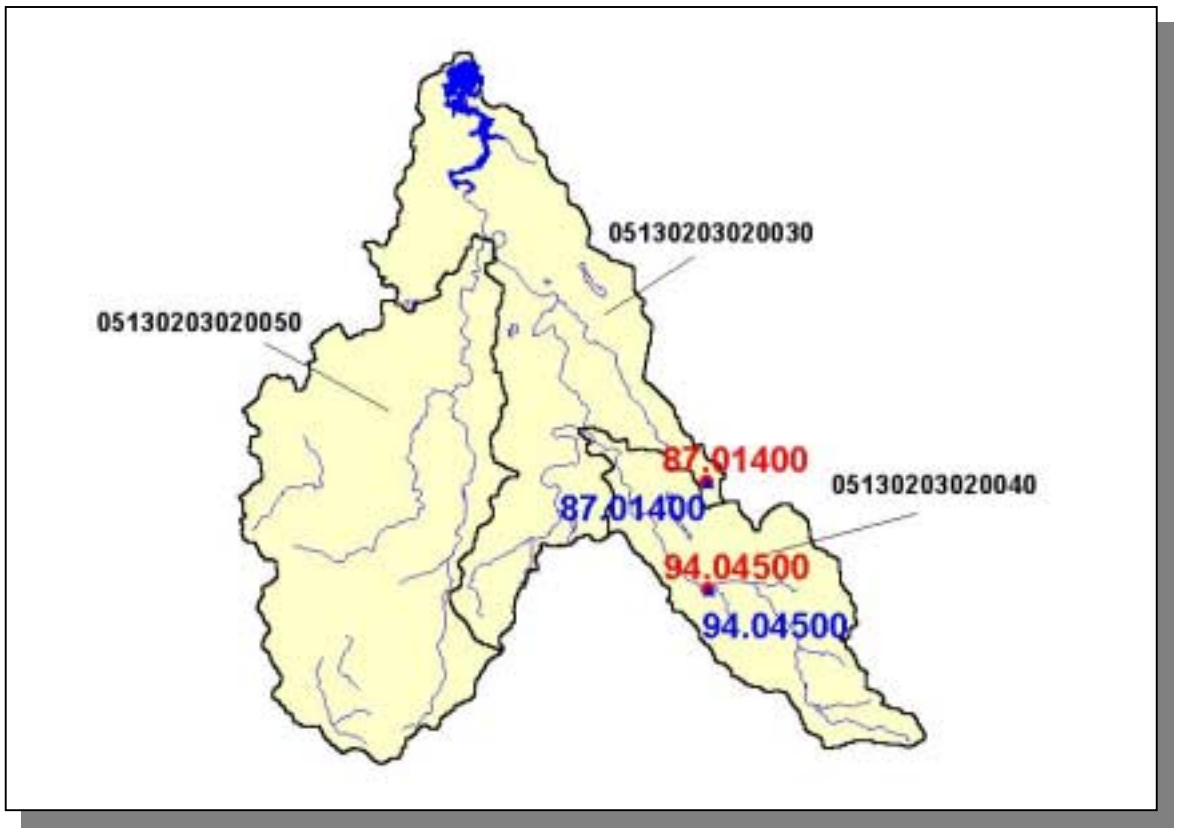

Figure 4-47. Location of Wetland Impact and Mitigation Sites in Subwatershed 05130203080. *Impact (Blue Triangle) and mitigation (Red Circle) sites are from ARAP database. Subwatershed 05130203020030, 05130203020040, and 05130203040050 boundaries are shown for reference. Additional information may be found in Stones-Appendix IV.*

4.2.H.ii.a. Dischargers to Waterbodies Listed on the 1998 303(d) List.

There are three NPDES facilities discharging to water bodies listed on the 1998 303(d) list in Subwatershed 05130203080:

- TN0022586 discharges to West Fork Stones River @ RM 10.5
- TN0064599 discharges to Lytle Creek
- TN0073377 discharges to Sinking Creek

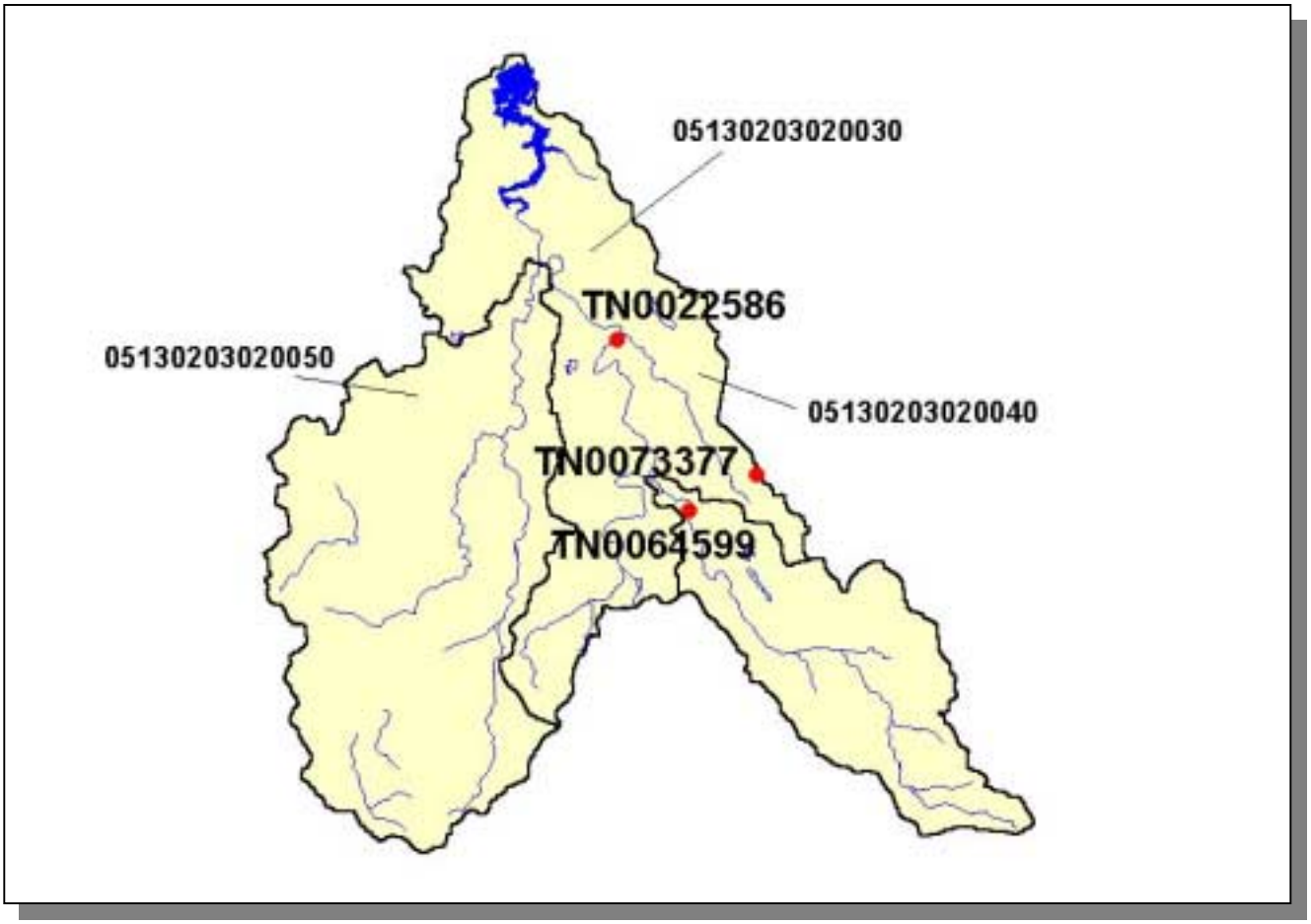

Figure 4-48. Location of NPDES Dischargers to Water Bodies Listed on the 1998 303(d) List in Subwatershed 05130203080. *Subwatershed 05130203020020, 05130203020030, and 05130203020040 boundaries are shown for reference. The names of facilities are provided in Stones-Appendix IV.*

PERMIT #	7Q10	1Q20	30Q2	QDESIGN	QLTA
TN0022586	0	0	0	8.0	9.7
TN0064599	0	0	0		0.0663
TN0073377	0	0	0		0.0043

Table 4-47. Receiving Stream Flow Information for NPDES Dischargers to Water Bodes Listed on the 1998 303(d) List in Subwatershed 05130203080. *Data are in million gallons per day (MGD). Data were calculated using data in Flow Duration and Low Flows of Tennessee Streams Through 1992.*

PERMIT #	$CBOD_5$	NH_3	FECAL	METAL	WET
TN0022586	X	X	X	X	X
TN0064599				X	X
TN0073377				X	X

Table 4-48. Monitoring Requirements for NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 05130203080.

PERMIT #	Cr	Cu	CN	Zn	Pb	TOLUENE	ETHYLBENZENE	BENZENE
TN0022586	0.054[a]	Report	0.01[a]	Report				
TN0064599					0.01	0.01	0.01	0.005
TN0073377					0.01	0.01	0.01	0.005

Table 4-49. Parameters Monitored for Daily Maximum (mg/L) Limits for NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 05130203080. *[a]Monthly Average.*

PERMIT #	TSS	pH	O&G	BENZENE	ETHYLBENZENE	TOLUENE	Pb	XYLENE	CN	BYPASS
TN0022586	40	2							13	1,276
TN0064599	9		2	5	4	4	4	1		
TN0073377	2		1	1	1	4	2	2		

Table 4-50. Number of Permit Violations Based on DMR Data (2/28/90-4/30/00) for NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 05130203080. *TSS, Total Suspended Solids; O&G, Oil and Grease.*

4.2.H.iii. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)					
Beef Cow	**Cattle**	**Milk Cow**	**Chickens**	**Hogs**	**Sheep**
4,915	10,292	634	17	242	104

Table 4-51. Summary of Livestock Count Estimates in Subwatershed 05130203080. *According to the Census of Agriculture, "Cattle" includes heifers, heifer calves, steers, bulls and bull calves.*

	INVENTORY		REMOVAL RATE	
County	**Forest Land (thousand acres)**	**Timber Land (thousand acres)**	**Growing Stock (million cubic feet)**	**Sawtimber (million board feet)**
Rutherford	155.7	155.7	0.4	0.9

Table 4-52. Forest Acreage and Average Annual Removal Rates (1987-1994) in Subwatershed 05130203080.

CROP	TONS/ACRE/YEAR
Non Agricultural Land Use	0.00
Berry (Horticultural)	0.47
Corn (Row Crops)	3.61
Soybeans (Row Crops)	2.82
Cotton (Row Crops)	4.79
Grass (Hayland)	0.21
Legume (Hayland)	0.32
Legume Grass (Hayland)	0.49
Grass (Pastureland)	0.89
Legume (Pastureland)	0.12
Grass, Forbs, Legumes (Mixed Pasture)	0.54
Forest Land (Grazed)	0.00
Forest Land (Not Grazed)	0.00
Farmsteads and Ranch Headquarters	0.47
Conservation Reserve Program Land	0.28

Table 4-53. Annual Estimated Total Soil Loss in Subwatershed 05130203080.